

Engine - V8 5.0L Petrol - Crankshaft Pulley

Removal and Installation

Special Tool(s)

 <p>E115256</p>	<p>303-1437 Crankshaft Damper Remover/Installer</p>
 <p>E115257</p>	<p>303-1438 Crankshaft Damper Bolt Remover/Installer</p>
 <p>E115258</p>	<p>303-1439 Crankshaft Damper Removal Plate</p>
 <p>E115259</p>	<p>303-1440 Crankshaft Damper Removal/Installation Stud</p>
 <p>E115260</p>	<p>303-1441 Crankshaft Damper Remover/Installer Body</p>
 <p>E115266</p>	<p>303-1448 Locking Tool</p>

Removal

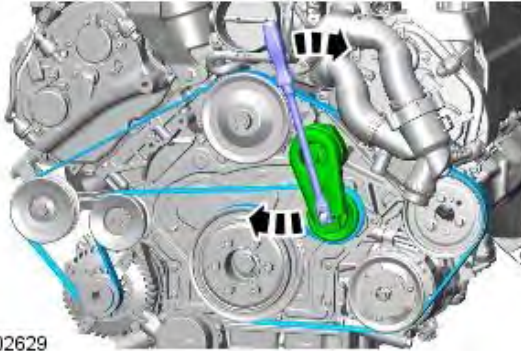
1. Refer to: [Battery Disconnect and Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).

2.  **WARNING:** Make sure to support the vehicle with axle stands.


Raise and support the vehicle.

3. Refer to: [Cooling Fan Motor and Shroud - V8 5.0L Petrol](#) (303-03A Engine Cooling - V8 5.0L Petrol/V8 S/C 5.0L Petrol, Removal and Installation).
4. Refer to: [Starter Motor](#) (303-06 Starting System - V8 5.0L Petrol/V8 S/C 5.0L Petrol, Removal and Installation).

5.



E102629

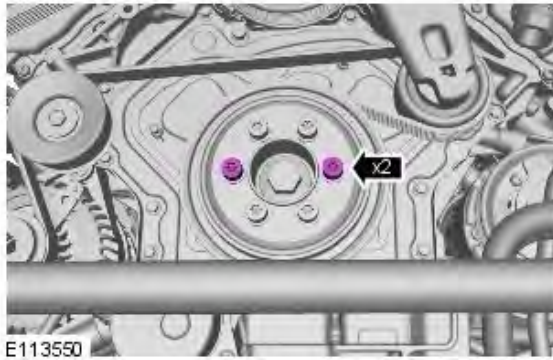
6.  **CAUTION:** Before removing the crankshaft pulley bolt, note the numbers on the bolt head. If the bolt head shows 10.9, the bolt must be removed counter clockwise. If the bolt head shows 12.9, the bolt must be removed clockwise. Failure to follow this instruction may result in damage to the crankshaft.

Note the markings on the crankshaft pulley bolt.



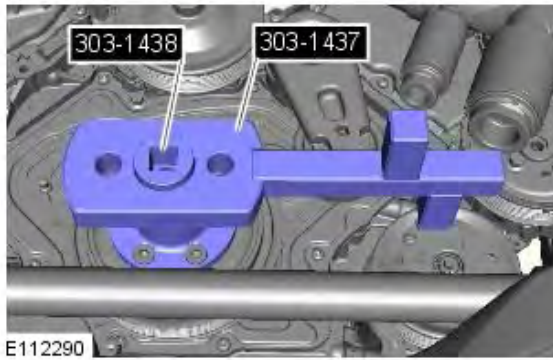
E120873

7.

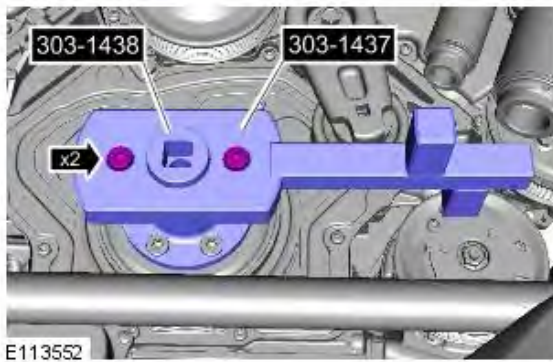


8. Install the special tool.

Special Tool(s): [303-1437](#), [303-1438](#)

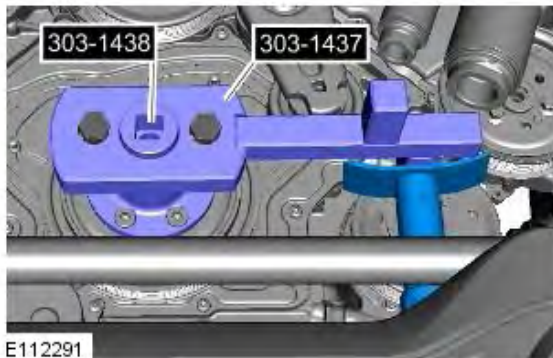


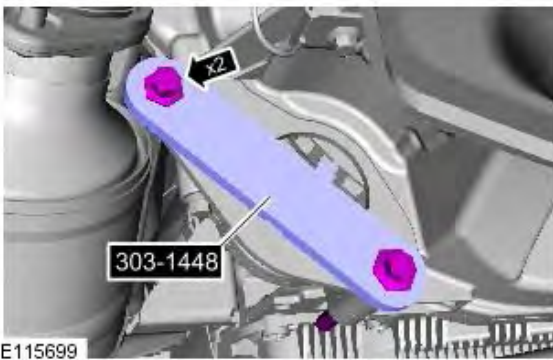
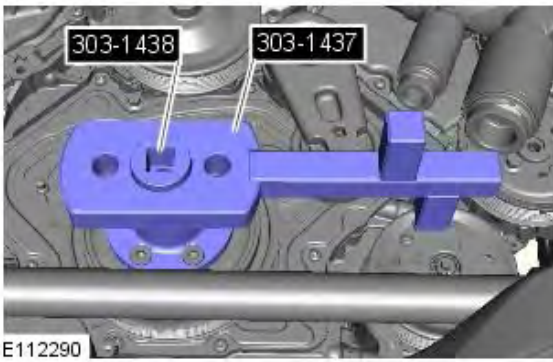
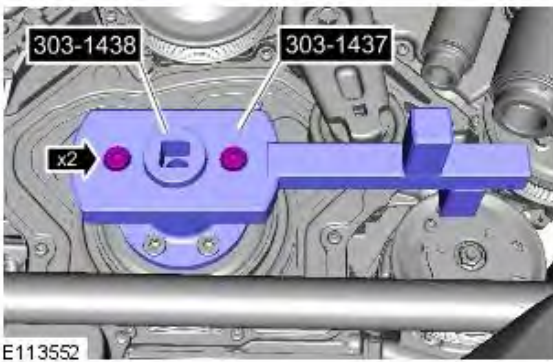
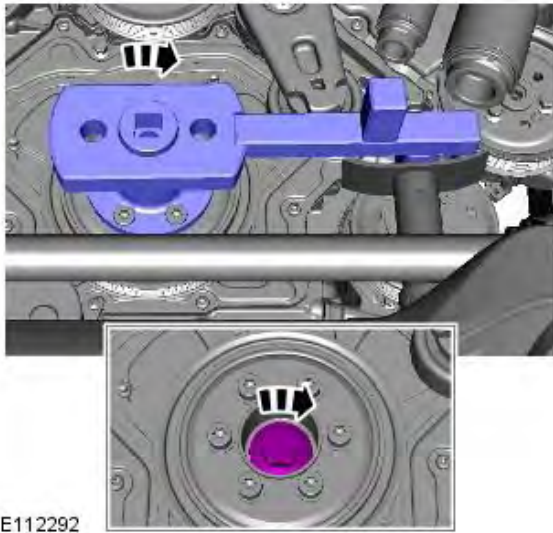
9. Torque: 65 Nm



10. NOTE: The graphic shows the tool position for LH thread only, RH thread will be the opposite.

Using a suitable stand, support the special tool.





11.  CAUTION: Discard the bolt.

NOTE: The crankshaft pulley bolt will be very tight.

NOTE: The thread is left handed.

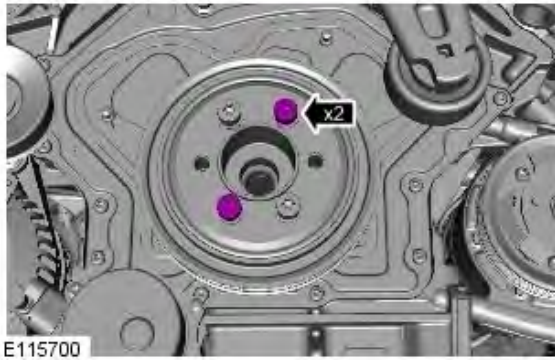
12.

13. NOTE: If the crankshaft damper is fitted with an early RH thread crankshaft bolt then the pulley can be removed with a standard puller.

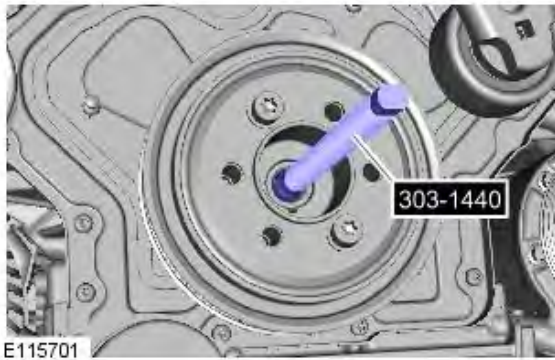
Remove the special tool.

14. Install the special tool.

Special Tool(s): [303-1448](#)

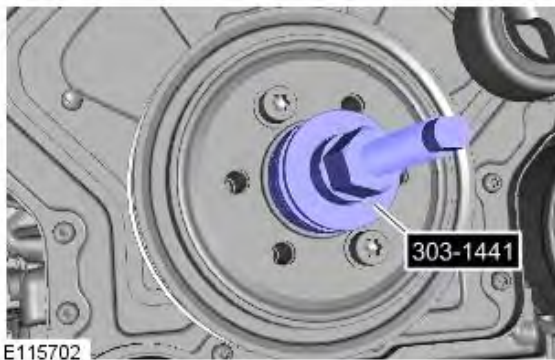


15.



16. Install the special tool.

Special Tool(s): [303-1440](#)



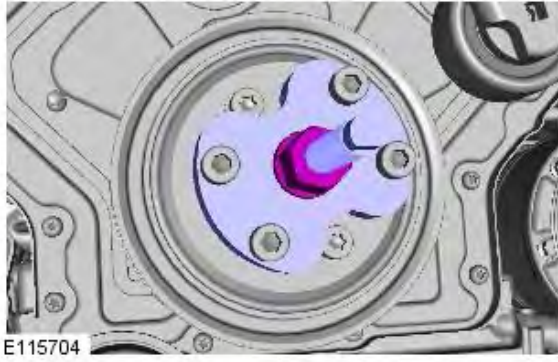
17. Install the special tool.

Special Tool(s): [303-1441](#)



18. Install the special tool.

Special Tool(s): [303-1439](#)



19.



20.  **CAUTION:** Discard the friction washer after removing the crankshaft pulley.

NOTE: Make sure to clean the threads in the end of the crankshaft and that the crank nose is free of any foreign materials.



21.

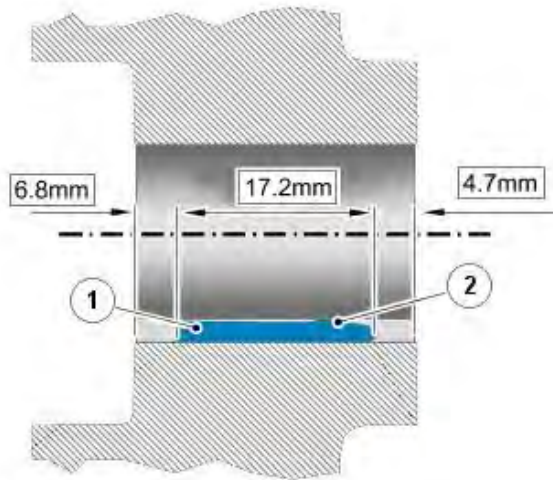
E115706



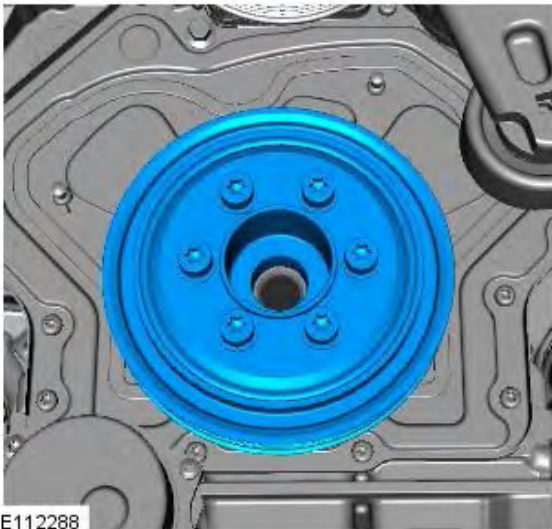
22.

E115707

Installation



E115889



E112288



E115701

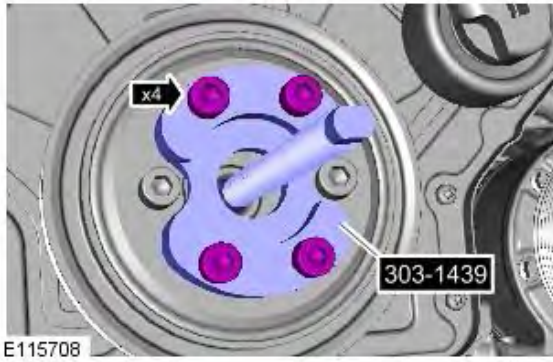
1. Apply RTV sealant to the crankshaft pulley keyway.

2.  **CAUTION:** Install a new friction washer before installing the crankshaft pulley.

NOTE: Make sure to clean the threads in the end of the crankshaft and that the crank nose is free of any foreign materials.

3. Install the special tool.

4. Install the special tool.



5. Install the special tool.



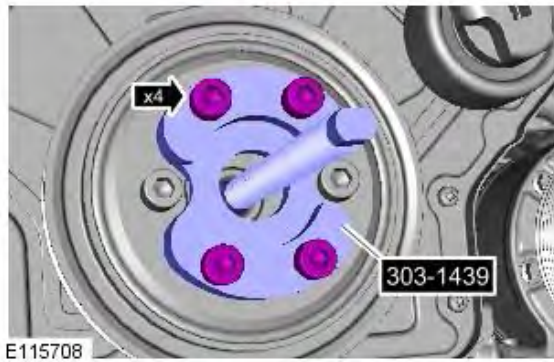
6.



7. Remove the special tool.



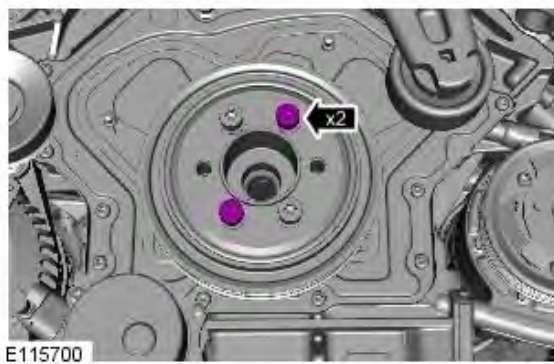
8. Remove the special tool.



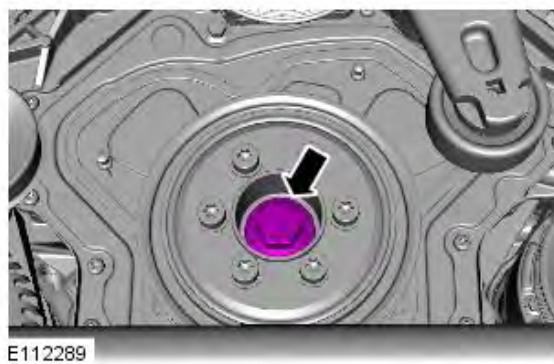
9. Remove the special tool.

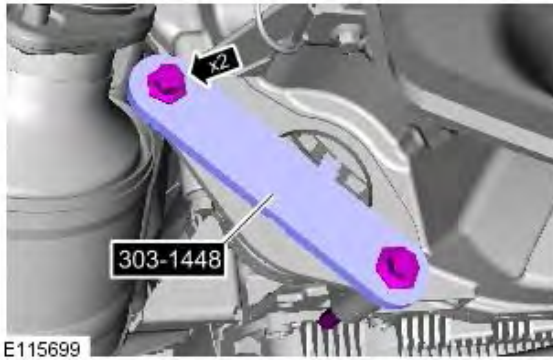


10. Apply loctite 270 to the thread of the bolts.

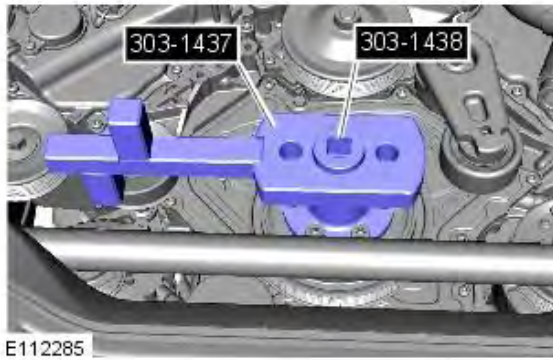


11.  **WARNING:** Make sure that a new bolt is installed.

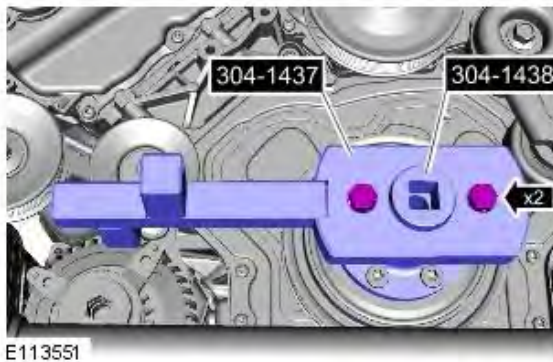




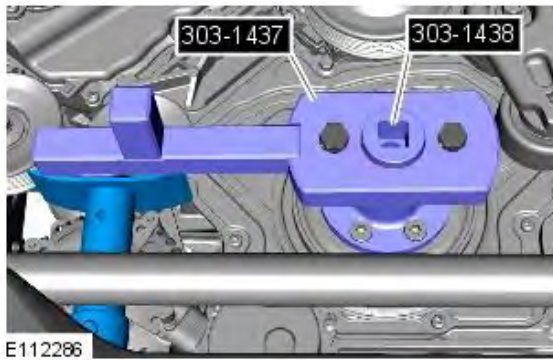
12. Remove the special tool.



13. Install the special tool.



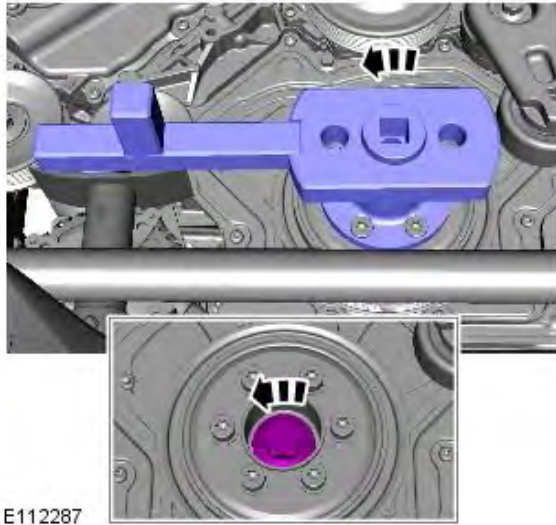
14. Torque: 65 Nm



15. NOTE: The graphic shows the tool position for LH thread only, RH thread will be the opposite.

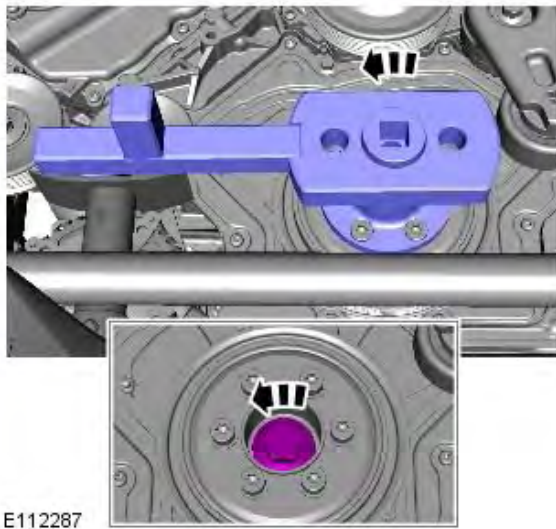
Using a suitable stand, support the special tool.

16. Torque: 200 Nm

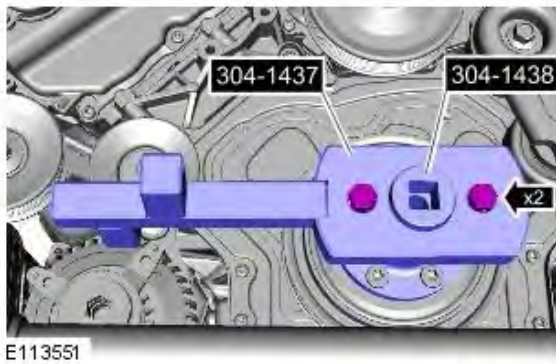


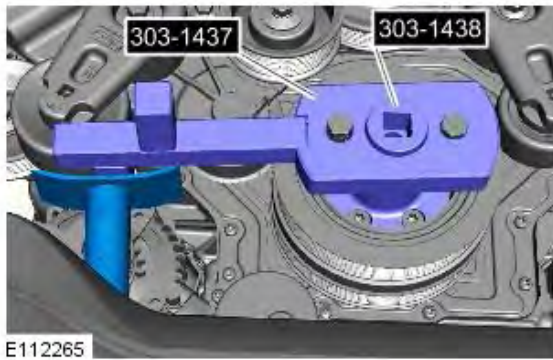
17. NOTE: The use of a torque multiplier capable of 600Nm will be required.

- Torque: 270°
- Make sure that the socket is turned through 270 degrees not the torque wrench.



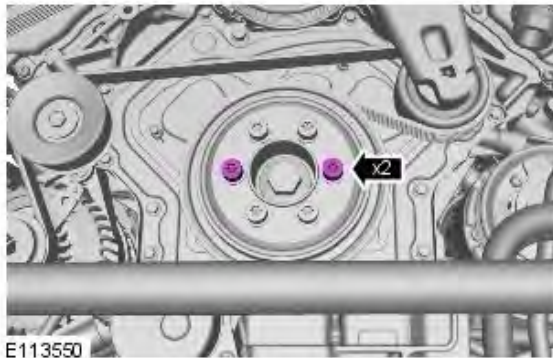
18.





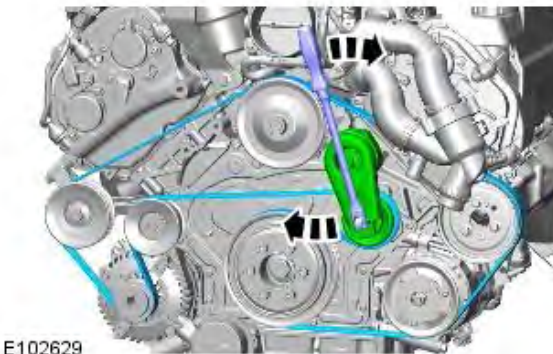
E112265

19. Remove the special tool.



E113550

20. Torque: 65 Nm



E102629

21.

22. Refer to: [Starter Motor](#) (303-06 Starting System - V8 5.0L Petrol/V8 S/C 5.0L Petrol, Removal and Installation).
23. Refer to: [Cooling Fan Motor and Shroud - V8 5.0L Petrol](#) (303-03A Engine Cooling - V8 5.0L Petrol/V8 S/C 5.0L Petrol, Removal and Installation).
24. Refer to: [Battery Disconnect and Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).